

## SELVA Meeting 5/20/2014

Attendees: Jerzy Nogiec, Roger Nehring, Dana Walbridge, Lidija Kokoska, Andrzej Makulski, Sergey Kotelnikov, Kelley Trombly-Freytag, Fred Lewis

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- **Project Status**
  - Focus on testing the first motor(bridge X), we have a test program
  - Next test the X1 motor the same way, then mandrel
  - Next work on Reel U/D testing
- **Safety**
  - Fred Lewis - Electrical Technical Support Group
    - From 5/13: install failsafe switches and redundant wiring over a Fri/Sat
      - Schedule for 5/31- 6/1
      - Fred has ordered keys for switches
    - From 5/13: fix bridge "traffic light" (klaxon works)
      - When can technicians work: 8-10am any day
    - From 5/13: will order a LOTO lock box for us;
      - he has one, will install it
- **Problems**
  - Angular encoder for tensioning is damaged
    - Attempting repair and trying to buy a replacement
- **Action Items**

### Fred

Obtaining or adapting encoders - 4 types		5/20/14
Repair existing damaged encoder		5/20/14

### Lidija

Implement mechanical setup for tension testing	Continuing with plan; when does it need to be complete: ~2 weeks	Continue 5/6/2014
Order the winch and rope		5/20/2014

### Andrzej

Set up a DC motor for tuning tension PID	Postponed, pending solution for mechanical setup for tension	4/22/2014
Verify all electrical wiring for tension test as operational	Basically Finished; -waiting an encoder delivery	Continue 4/22/2014

		-will be checked before each test	
	Investigate proximity sensors	Collision warning sensor found; continuing Unknown status on 5/13	Continue 5/6/2014
	Test X and X1 motors; produce test results note. Sergey will assist		

### Jerzy

	Setup meeting with Andrzej, Roger and Sergey to create a list of possible tasks connected with mechanical alignment of the machine	no meeting yet	To be complete 5/6/2014
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### Roger

	Execute and document tension control test plan	Documentation is complete, execution suspended on mechanical work	Suspended 4/22/2014
	Review Dana's translation of Reel Up/Down Test Plan into Test Plan template	Review not done (in template)	To be done 5/6/2014
	Alter software for additional signals for tension and Reel; concentrate on Reel U/D		5/20/2014
	Reel U/D test program		5/20/2014
	Find flexible coupling for encoder		5/20/2014

### Sergey

	Create note on naming conventions on I/O channels	Clarified, not done.	To be done 4/29/2014
	Meet with Andrzej and Jerzy decide on synchronizing motor motion inside FPGA		5/20/2014

### Dana

	After wiring has been okayed and trenches are covered, then inspect the area for small objects and have them removed		Suspended – waiting for wiring OK
	Investigate sensor tubing	Omega says 1/8" inner diameter ok, most use tygon for our app; All tygon is in English units, but what we need may	Continue 5/6/2014

		need metric	
	Hazard analysis for general SELVA testing	Basically complete. Rich Ruthe reviewed ok; A has changes- re working on ladder Create a signoff sheet, give to IB3 people	Continue

### Kelley

	Get spreadsheet of results of testing of tension and reel subsystems	Put in SELVA wiki	-
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### • Completed Action Items

	All/Roger	Resolve the differences in the repository code and the code in the SELVA machine, assignment unclear until the code has been examined	Resolved; Code in IB3 is now the latest
	Lidija	Create proposal for mechanical setup for tension testing assuming using a motor	Complete
	Jerzy	Check gloves for handling ropes	Complete Have 2 different glove types that seem to work
	Roger	Verify devices are operational	Complete
	Roger	Complete check out testing of tension and reel subsystems and put results into IO spreadsheet	Complete; Kelley get a copy and talk to J re: where to go
	Roger	Go to Marine store with Jerzy	Complete. Lydia, Roger & Jerzy went. Checked out ropes and decided on what to use 200' ½" nylon rope
	Dana	Get key lockbox for the area	Complete. Fred has a spare to use, he will install it